

IN THE CLAIMS:

Amendments to the Claims

Please amend claims 7, 8 and 20 as shown below.

Listing of Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1-6 (canceled)

7. (currently amended) A recording medium enabling writing of at least one recording pulse thereon comprising:

- a disk-shaped substrate;
- at least one track being provided on the disk-shaped substrate;
- a zone including said at least one track therein;

wherein said zone stores a lookup table having information about edge shifting values of at least one of a leading and trailing edge of the at least one recording pulse to be written, the edge shifting values being shifting amounts with respect to a reference clock; and

wherein said edge shifting values for the at least one recording pulse are determined by combinations of a length $M(n)$ of a mark being currently written and at least one of a length $s(n-1)$ of a space precedent to the mark and a length $s(n+1)$ of a space subsequent to the mark, and which can be positive and negative.

8. (currently amended) A recording medium enabling writing of at least one recording pulse thereon comprising:

a disk-shaped substrate;
at least one track being provided on the disk-shaped substrate;
a zone including said at least one track therein;
wherein said zone stores a lookup table having information about edge shifting values of at least one of a leading and trailing edge of the at least one recording pulse to be written, the edge shifting values being shifting amounts with respect to a reference clock; and

wherein said edge shifting values are for the at least one recording pulse for recording a mark $3T_w$ long, where T_w is a time width.

9. (previously presented) A recording medium according to claim 7, wherein said edge shifting values are for a leading edge of a first recording pulse and a trailing edge of a last recording pulse of a plurality of recording pulses.

10. (previously presented) A recording medium according to claim 7, wherein said edge shifting values are for a leading and trailing edge of a first recording pulse and a trailing edge of a last recording pulse of a plurality of recording pulses.

11. (previously presented) A recording medium according to claim 7, wherein said edge shifting values are for a leading edge of a first recording pulse and a leading and trailing edge of a last recording pulse of a plurality of recording pulses.

12. (previously presented) A recording medium according to claim 7, wherein said edge shifting values are for a leading and trailing edge of each of first and a last recording pulse of a plurality of recording pulses.

13. (previously presented) A recording medium according to claim 7, wherein said edge shifting values are for a leading edge of a first recording pulse of a plurality of recording pulses.

14. (previously presented) A recording medium according to claim 7, wherein said edge shifting values are for a leading and trailing edge of a first recording pulse of a plurality of recording pulses.

15. (previously presented) A recording medium according to claim 7, wherein said edge shifting values are for a trailing edge of a last recording pulse of a plurality of recording pulses.

16. (previously presented) A recording medium according to claim 7, wherein said edge shifting values are for a leading and trailing edge of a last recording pulse of a plurality of recording pulses.

Claims 17 and 18 (canceled)

19. (previously presented) A recording medium according to claim 7, wherein said edge shifting values are for at least one of a leading and trailing edge of one recording pulse for recording a mark $3T_w$ long, where T_w is a time width.

20. (currently amended) A recording medium according to claim 8, wherein said edge shifting values for the at least one recording pulse are determined by combinations of a length $M(n)$ of a mark being currently written are at least one of a length $s(n-1)$ of a space precedent to the mark and a length $s(n+1)$ of a space subsequent to the mark, and which can be positive and negative.